

(2021 Batch onwards)

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St Aloysius College (Autonomous)
Mangaluru

B.A. Semester I – Degree Examination

February - 2022

HISTORY (Open Elective)

CULTURAL HERITAGE OF KARNATAKA

(CCE3-CE 10) PART I

Time: 2½ Hours

Max. Marks: 60

Note : Answer all questions to the point without exceeding the maximum limit of pages.

ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ ಪುಟದ ಮಿತಿಯನ್ನು ಮೀರದಂತೆ ಸಮರ್ಪಕವಾಗಿ ಉತ್ತರಿಸಿ .



SECTION - A

I Answer any TWO of the following in 3 pages each.

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಮೂರು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

(15×2=30)

1. Describe the features of art and architecture of coastal Karnataka
ಕರಾವಳಿ ಕರ್ನಾಟಕದ ಕಲೆ ಮತ್ತು ವಾಸ್ತುಶಿಲ್ಪದ ಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
2. Give a critical note on the status of women in medieval Karnataka
ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕದಲ್ಲಿ ಮಹಿಳೆಯರ ಸ್ಥಾನಮಾನದ ಬಗ್ಗೆ ವಿಮರ್ಶಾತ್ಮಕ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
3. Explain the rise of Jainism in Karnataka between 3rd and 10th century CE
ಕರ್ನಾಟಕದಲ್ಲಿ CE 3ರಿಂದ 10ರ ನಡುವಣ ಜೈನಧರ್ಮದ ಬೆಳವಣಿಗೆಯನ್ನು ವಿವರಿಸಿ.

SECTION - B

II Answer any THREE of the following in a page each.

(3×5=15)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ 3 ಪ್ರಶ್ನೆಗಳಿಗೆ ಒಂದು ಪುಟದಷ್ಟು ಉತ್ತರಿಸಿ.

1. Write a note on Shaivism in medieval Karnataka
ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕದ ಶೈವ ಪಂಥದ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
2. How land grants led to the agrarian changes during the early medieval Alupa period.
ಆರಂಭಿಕ ಮಧ್ಯಕಾಲೀನ ಆಲೂಪ ಅವಧಿಯಲ್ಲಿ ಭೂಧಾನಗಳು ಕೃಷಿ ಕ್ಷೇತ್ರದಲ್ಲಿನ ಬದಲಾವಣೆಗಳಿಗೆ ಹೇಗೆ ಕಾರಣವಾದವು?
3. Explain the caste system and social stratification in the medieval Karnataka
ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕ ಇತಿಹಾಸದಲ್ಲಿ ಜಾತಿ ಮತ್ತು ಸಾಮಾಜಿಕ ಶ್ರೇಣೀಕರಣವನ್ನು ವಿವರಿಸಿ.
4. Explain the importance of folk dances of coastal Karnataka
ಕರಾವಳಿ ಕರ್ನಾಟಕದ ಜನಪದ ನೃತ್ಯಗಳ ಕುರಿತು ವಿವರಿಸಿ.
5. Write a brief note on caste structures during Satavahana period.
ಶಾತವಾಹನರ ಕಾಲದ ಜಾತಿ ವ್ಯವಸ್ಥೆಯ ಕುರಿತು ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Contd...2

SECTION - C

II Answer the following in 3-5 sentences each.

(5×3=15)

ಕೆಳಗಿನ ಪ್ರಶ್ನೆಗಳಿಗೆ 3-5 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. Mention the different forms of Yakshagana performed in coastal Karnataka.

ಕರಾವಳಿ ಕರ್ನಾಟಕದಲ್ಲಿ ಚಾಲ್ತಿಯಲ್ಲಿರುವ ಯಕ್ಷಗಾನದ ವಿವಿಧ ಪ್ರಕಾರಗಳನ್ನು ಹೆಸರಿಸಿ.

2. Explain the meaning of 'Brahmadeya', 'Devadana' and 'Muladaya' land grants.

'ಬ್ರಹ್ಮದೇಯ', 'ದೇವದಾನ' ಮತ್ತು 'ಮೂಲಾದಾಯ' ಭೂಧಾನಗಳ ಅರ್ಥವನ್ನು ವಿವರಿಸಿ.

3. What was the position of female education in medieval Karnataka.

ಮಧ್ಯಕಾಲೀನ ಕರ್ನಾಟಕದಲ್ಲಿ ಸ್ತ್ರೀ ಶಿಕ್ಷಣದ ಸ್ಥಾನ ಹೇಗಿತ್ತು?

4. Name the important styles of temple architecture in coastal Karnataka.

ಕರಾವಳಿ ಕರ್ನಾಟಕ ದೇವಾಲಯಗಳ ವಾಸ್ತುಶಿಲ್ಪದ ಪ್ರಮುಖ ಶೈಲಿಗಳನ್ನು ಹೆಸರಿಸಿ.

5. Write a brief note on Kodava attachment towards weapon

ಕೊಡವರ ಆಯುಧ ಬಾಂದವ್ಯದ ಕುರಿತು ಲಘು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

(2021 Batch Onwards)

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**St Aloysius College (Autonomous)
Mangaluru**

B.A. - SEMESTER I – Degree Examination

February - 2022

**ECONOMICS – OPEN ELECTIVE
DEVELOPMENT STUDIES**

Time: 2½ hrs.

Max Marks: 60

PART - A/ ವಿಭಾಗ ಎ

Answer any FIVE of the following questions.

(5×2=10)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

1. Define Economic Development.
ಆರ್ಥಿಕ ಅಭಿವೃದ್ಧಿಯನ್ನು ವ್ಯಾಖ್ಯಾನಿಸಿ.
2. What is HPI?
ಎಚ್.ಪಿ.ಐ ಎಂದರೇನು?
3. What is poverty?
ಬಡತನ ಎಂದರೇನು?
4. What is per capita income?
ತಲಾ ಆದಾಯ ಎಂದರೇನು?
5. What is HDI?
ಎಚ್.ಡಿ.ಐ ಎಂದರೇನು?
6. What do you mean by sustainable development?
ಸುಸ್ಥಿರ ಅಭಿವೃದ್ಧಿ ಎಂದರೇನು?
7. Mention any two causes of migration.
ವಲಸೆಯ ಯಾವುದಾದರೂ ಎರಡು ಕಾರಣಗಳನ್ನು ಸೂಚಿಸಿ.
8. Who is an industrial labourer?
ಕೈಗಾರಿಕಾ ಕಾರ್ಮಿಕ ಎಂದರೆ ಯಾರು?



PART - B/ ವಿಭಾಗ ಬಿ

Answer any SIX of the following questions.

(6×5=30)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

9. Write a note on economic growth.
ಆರ್ಥಿಕ ಬೆಳವಣಿಗೆಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
10. Explain the common characteristics of developing economies.
ಅಭಿವೃದ್ಧಿಶೀಲ ಆರ್ಥಿಕತೆಗಳ ಸಾಮಾನ್ಯ ಗುಣಲಕ್ಷಣಗಳನ್ನು ವಿವರಿಸಿ.
11. Write a note on economic progress.
ಆರ್ಥಿಕ ಪ್ರಗತಿಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
12. Write a note on development ethics.
ಅಭಿವೃದ್ಧಿ ನೀತಿಶಾಸ್ತ್ರದ ತತ್ವದ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
13. Write a note on PQLI.
ಭೌತಿಕ ಗುಣಮಟ್ಟದ ಜೀವನ ಸೂಚ್ಯಂಕದ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
14. Explain Adam Smith's approaches of development.
ಆಡಮ್ ಸ್ಮಿತ್ ರವರ ಅಭಿವೃದ್ಧಿಯ ವಿಧಾನಗಳನ್ನು ವಿವರಿಸಿ.

15. Write a note on regional disparities.
ಪ್ರಾದೇಶಿಕ ಅಸಮಾನತೆಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
16. Explain the causes of Climate Change.
ಹವಾಮಾನ ಬದಲಾವಣೆಯ ಕಾರಣಗಳನ್ನು ವಿವರಿಸಿ.
17. Write a note on deforestation.
ಅರಣ್ಯನಾಶದ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

PART - C/ ವಿಭಾಗ ಸಿ

Answer any TWO of the following questions.

(2×10=20)

ಕೆಳಗಿನವುಗಳಲ್ಲಿ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

18. Explain the determinants of economic development.
ಆರ್ಥಿಕ ಅಭಿವೃದ್ಧಿಯ ನಿರ್ಧಾರಕಗಳನ್ನು ವಿವರಿಸಿ.
19. Explain Nurkse' theory of disguised unemployment.
ನರ್ಕ್ಸನ ಪ್ರಚ್ಛನ್ನ ನಿರುದ್ಯೋಗ ಸಿದ್ಧಾಂತವನ್ನು ವಿವರಿಸಿ.
20. Examine the causes of poverty.
ಬಡತನದ ಕಾರಣಗಳನ್ನು ಪರಿಶೀಲಿಸಿ.
21. Explain the causes and consequences of water pollution.
ಜಲಮಾಲಿನ್ಯದ ಕಾರಣಗಳು ಮತ್ತು ಪರಿಣಾಮಗಳನ್ನು ವಿವರಿಸಿ.

(2021 Batch Onwards)

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St Aloysius College (Autonomous)
Mangaluru
B.A. Semester I – Degree Examination
February - 2022
POLITICAL SCIENCE - OPEN ELECTIVE
INDIAN POLITY: ISSUES AND CONCERNS

Time: 2½ Hours

Max. Marks: 60

I Answer ALL the following questions in 2 sentences each.

(1x6=6)

ಈ ಕೆಳಗಿನ ಎಲ್ಲಾ ಪ್ರಶ್ನೆಗಳಿಗೆ 2 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

1. Define national integration.
ರಾಷ್ಟ್ರೀಯ ಏಕೀಕರಣ ಎಂದರೇನು ? ವ್ಯಾಖ್ಯಾನಿಸಿರಿ.
2. What is meant by regionalism?
ಪ್ರಾದೇಶಿಕ ವಾದ ಎಂದರೇನು ?
3. What is meant by secularism?
ಜಾತ್ಯಾತೀತವಾದ ಎಂದರೇನು ?
4. What is meant by communalism?
ಕೋಮುವಾದ ಎಂದರೇನು ?
5. What do you mean by unity in diversity?
ವಿವಿಧತೆಯಲ್ಲಿ ಏಕತೆ ಎಂದರೇನು?
6. What is meant by endogamy?
'ಒಳಭಾಂದವ್ಯ ವಿವಾಹ' ಎಂದರೇನು?

**II Answer any THREE of the following questions in 10 sentences each.**

(4x3=12)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ 10 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

7. Write a note on National Integration Council.
ರಾಷ್ಟ್ರೀಯ ಏಕೀಕರಣ ಪರಿಷತ್ತು ಇದರ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.
8. Suggest ways to celebrate diversity in India.
ಭಾರತದಲ್ಲಿ ವೈವಿಧ್ಯತೆಯನ್ನು ಆಚರಿಸಲು ಇರುವ ಮಾರ್ಗೋಪಾಯಗಳನ್ನು ಸೂಚಿಸಿ ಬರೆಯಿರಿ.
9. State the fundamental duties of Indian Citizens.
ಭಾರತದ ಪ್ರಜೆಗಳ ಮೂಲಭೂತ ಕರ್ತವ್ಯಗಳನ್ನು ಬರೆಯಿರಿ.
10. "Caste system undermines the efficiency of labour and prevents its perfect mobility"- Explain.
"ಜಾತಿ ವ್ಯವಸ್ಥೆಯು ಕಾರ್ಮಿಕರ ದಕ್ಷತೆಯನ್ನು ಹಾಳು ಮಾಡುತ್ತದೆ ಮತ್ತು ಅದರ ಪರಿಪೂರ್ಣ ಚಲನಶೀಲತೆಯನ್ನು ತಡೆಯುತ್ತದೆ" - ವಿವರಿಸಿ ಬರೆಯಿರಿ.

III Answer any THREE of the following questions in 20 sentences each.

(6x3=18)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಮೂರು ಪ್ರಶ್ನೆಗಳಿಗೆ 20 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿರಿ.

11. Write a note on religion and tradition.
ಧರ್ಮ ಹಾಗೂ ಸಂಪ್ರದಾಯದ ಮೇಲೆ ಒಂದು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

Contd...2

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12. Explain the difficulties that caste system poses to the lower caste as depicted in the movie 'Jai Bhim'.

'ಜೈ ಭೀಮ್' ಚಿತ್ರದಲ್ಲಿ ವರ್ಣಿಸಿರುವಂತೆ ಜಾತಿ ವ್ಯವಸ್ಥೆಯು ಕೆಳಜಾತಿಯವರಿಗೆ ಒಡ್ಡುವ ತೊಂದರೆಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

13. What is your role as a youth to prevent corruption?

ಭ್ರಷ್ಟಾಚಾರವನ್ನು ತಡೆಗಟ್ಟಲು ಯುವಕರಾದ ನಿಮ್ಮ ಪಾತ್ರವೇನು ?

14. Distinguish between 'jati' and 'varna'.

ಜಾತಿ ಮತ್ತು ವರ್ಣದ ಮಧ್ಯೆಯಿರುವ ವ್ಯತ್ಯಾಸಗಳನ್ನು ಬರೆಯಿರಿ.

IV Answer any ONE of the following questions in about 30 sentences each.

(10x1=10)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ 1 ಪ್ರಶ್ನೆಗೆ 30 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

15. Explain the challenges to national integration.

ರಾಷ್ಟ್ರೀಯ ಏಕತೆಗಿರುವ ಸವಾಲುಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

16. Explain the causes and effects of terrorism.

ಭಯೋತ್ಪಾದನೆಯ ಕಾರಣಗಳು ಮತ್ತು ಪರಿಣಾಮಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

V Answer any ONE of the following questions in 40 sentences each.

(14x1=14)

ಈ ಕೆಳಗಿನ ಯಾವುದಾದರೂ 1 ಪ್ರಶ್ನೆಗೆ ನಲ್ವತ್ತು ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

17. Explain the functions and dysfunctions of Caste in India.

ಭಾರತದಲ್ಲಿ ಜಾತಿಯ ಕಾರ್ಯಗಳು ಮತ್ತು ಅಪಕಾರ್ಯಗಳನ್ನು ವಿವರಿಸಿ ಬರೆಯಿರಿ.

18. Examine the causes and remedies of corruption.

ಭ್ರಷ್ಟಾಚಾರದ ಕಾರಣಗಳು ಮತ್ತು ಪರಿಣಾಮಗಳನ್ನು ಪರಿಶೀಲಿಸಿ ಬರೆಯಿರಿ.

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(2021 batch onwards)

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St Aloysius College (Autonomous)
Mangaluru

B.A. Semester I – Degree Examination

February - 2022

SOCIOLOGY – OPEN ELECTIVE

Indian Society: Continuity and Change

Max. Marks: 60

Time: 2½ Hours

PART - A

Answer any **FIVE** questions in 2-3 sentences each.

(5x2=10)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ 2 -3 ವಾಕ್ಯಗಳಲ್ಲಿ ಉತ್ತರಿಸಿ.

1. What is modernization?

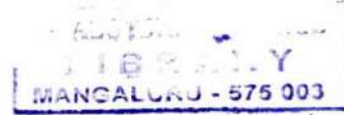
ಆಧುನೀಕರಣ ಎಂದರೇನು?

2. Write any two characteristics of pre - industrial society.

ಪೂರ್ವ- ಕೈಗಾರಿಕಾ ಸಮಾಜದ ಯಾವುದಾದರೂ ಎರಡು ಗುಣಲಕ್ಷಣಗಳನ್ನು ಬರೆಯಿರಿ.

3. Trace the etymology of word 'caste'.

'ಜಾತಿ' ಪದದ ವ್ಯುತ್ಪತ್ತಿಯನ್ನು ಪತ್ತೆಹಚ್ಚಿ.



4. Who are backward classes in India?

ಭಾರತದಲ್ಲಿ ಹಿಂದುಳಿದ ವರ್ಗಗಳು ಎಂದರೆ ಯಾರು?

5. What is social movement?

ಸಾಮಾಜಿಕ ಚಳುವಳಿ ಎಂದರೇನು?

6. What is meant by corruption?

ಭ್ರಷ್ಟಾಚಾರ ಎಂದರೇನು?

7. What is life style?

ಜೀವನ ಶೈಲಿ ಎಂದರೇನು?

8. What are social values?

ಸಾಮಾಜಿಕ ಮೌಲ್ಯಗಳು ಯಾವುವು?

PART - B

Answer any **SIX** of the following:

(6x5=30)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಆರು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

9. Discuss how modernization has contributed to change in Indian Society.

ಆಧುನೀಕರಣವು ಭಾರತೀಯ ಸಮಾಜದಲ್ಲಿ ಬದಲಾವಣೆಗೆ ಹೇಗೆ ಕೊಡುಗೆ ನೀಡಿದೆ ಎಂಬುದನ್ನು ಚರ್ಚಿಸಿ.

Contd...2

G 104 OE1.1

10. Examine the changing caste structure.

ಬದಲಾಗುತ್ತಿರುವ ಜಾತಿ ರಚನೆಯನ್ನು ಪರಿಶೀಲಿಸಿ.

11. Elucidate the importance of rural infrastructure.

ಗ್ರಾಮೀಣ ಮೂಲಸೌಕರ್ಯದ ಪ್ರಾಮುಖ್ಯತೆಯನ್ನು ವಿವರಿಸಿ.

12. Discuss the Dalit Movements.

ದಲಿತ ಚಳುವಳಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

13. Examine the history of LGBTQ movement in India.

ಭಾರತದಲ್ಲಿ LGBTQ ಚಳುವಳಿಯ ಇತಿಹಾಸವನ್ನು ಪರಿಶೀಲಿಸಿರಿ.

14. Write a note on any two women empowerment movements in India.

ಭಾರತದಲ್ಲಿನ ಯಾವುದಾದರೂ ಎರಡು ಮಹಿಳಾ ಸಬಲೀಕರಣ ಚಳುವಳಿಗಳ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

15. Discuss veganism in India.

ಭಾರತದಲ್ಲಿ ವೇಗನ್ ಆಹಾರ ಪದ್ಧತಿಯನ್ನು ಚರ್ಚಿಸಿ.

16. Discuss the modern values of Indian Society.

ಭಾರತೀಯ ಸಮಾಜದ ಆಧುನಿಕ ಮೌಲ್ಯಗಳನ್ನು ಚರ್ಚಿಸಿ.

17. Examine the impact of globalization on family relationships.

ಕುಟುಂಬ ಸಂಬಂಧಗಳ ಮೇಲೆ ಜಾಗತೀಕರಣದ ಪ್ರಭಾವವನ್ನು ಪರಿಶೀಲಿಸಿ.

PART - C

Answer any **TWO** of the following:

(2x10=20)

ಕೆಳಗಿನ ಯಾವುದಾದರೂ ಎರಡು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

18. Write an essay on how Indian social institutions are undergoing change.

ಭಾರತೀಯ ಸಾಮಾಜಿಕ ಸಂಸ್ಥೆಗಳು ಹೇಗೆ ಬದಲಾವಣೆಗೆ ಒಳಗಾಗುತ್ತಿವೆ ಎಂಬುದರ ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

19. Write a note on rural healthcare system.

ಗ್ರಾಮೀಣ ಆರೋಗ್ಯ ವ್ಯವಸ್ಥೆಯ ಬಗ್ಗೆ ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

20. Discuss the major backward class movements in India.

ಭಾರತದ ಪ್ರಮುಖ ಹಿಂದುಳಿದ ವರ್ಗಗಳ ಚಳುವಳಿಗಳನ್ನು ಚರ್ಚಿಸಿ.

21. Write an essay on the changing life style of Indians due to the impact of globalization.

ಜಾಗತೀಕರಣದ ಪ್ರಭಾವದಿಂದಾಗಿ ಬದಲಾಗುತ್ತಿರುವ ಭಾರತೀಯ ಜೀವನ ಶೈಲಿಯ ಕುರಿತು ಪ್ರಬಂಧ ಬರೆಯಿರಿ.

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St Aloysius College (Autonomous)
Mangaluru
B.A Semester I- Degree Examination
February- 2022
JOURNALISM - OPEN ELECTIVE
Writing for Media

Max. Marks: 60

Time: 2 ½ Hours

PART - A

(5X10=50)

Answer any Five of the following

ಕೆಳಕಂಡ ಯಾವುದಾದರೂ ಐದು ಪ್ರಶ್ನೆಗಳಿಗೆ ಉತ್ತರಿಸಿ.

1. Explain the structure of news writing.
ಸುದ್ದಿ ಬರವಣಿಗೆಯ ಸಂರಚನ ವಿಧಾನವನ್ನು ವಿವರಿಸಿ.
2. Explain the types of Press release with examples.
ಪತ್ರಿಕಾ ಪ್ರಕಟನೆಯ ವಿಧಗಳನ್ನು ಉದಾಹರಣೆ ಸಹಿತ ವಿವರಿಸಿ.
3. Discuss sources of news .
ಸುದ್ದಿಯ ಮೂಲಗಳನ್ನು ಚರ್ಚಿಸಿ
4. Write a feature story on any travelling spot.
ಯಾವುದಾದರೂ ಪ್ರವಾಸಿ ತಾಣದ ಬಗ್ಗೆ ನುಡಿಚಿತ್ರ ಬರೆಯಿರಿ.
5. Nonverbal communication enhances our personality. Comment.
ಅಮೌಖಿಕ ಸಂವಹನ ವ್ಯಕ್ತಿತ್ವವನ್ನು ಹೆಚ್ಚಿಸುತ್ತದೆ. ವಿವರಿಸಿ.
6. Write a radio news script for a news bulletin
ಸುದ್ದಿ ಬುಲೆಟಿನ್‌ಗಾಗಿ ರೇಡಿಯೋ ಸುದ್ದಿ ಸ್ಕ್ರಿಪ್ಟ್ ಬರೆಯಿರಿ.
7. Write a short television script for serial.
ಟಿವಿ ಧಾರಾವಾಹಿಗೆ ಕಿರು ಸ್ಕ್ರಿಪ್ಟ್ ರಚಿಸಿ.
8. Explain the differences between news and feature writing
ಸುದ್ದಿ ಬರವಣಿಗೆ ಹಾಗೂ ನುಡಿಚಿತ್ರ ಬರವಣಿಗೆಯ ನಡುವಿನ ವ್ಯತ್ಯಾಸವನ್ನು ತಿಳಿಸಿ.
9. Write a note on press freedom
ಪತ್ರಿಕಾ ಸ್ವಾತಂತ್ರ್ಯದ ಕುರಿತು ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

**PART- B**

4X 2½=10

Write short notes ಟಿಪ್ಪಣಿ ಬರೆಯಿರಿ.

1. Letters to the editor
ಸಂಪಾದಕರಿಗೆ ಪತ್ರ
2. Radio Jingle
ರೇಡಿಯೋಜಿಂಗಲ್
3. Beat reporting
ಬೀಟ್ ವರದಿಗಾರಿಕೆ
4. Instagram
ಇನ್‌ಸ್ಟಾಗ್ರಾಂ

(2021 batch onwards)

G 108 OE1.1

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
BA Semester I- Degree Examination
February - 2022
English Major (Open Elective)

TRAVEL WRITING

Time: 2½ hrs.

Max Marks: 60

UNIT – I

I. Answer the following questions in about 300 words each: (2X15=30)

1. Briefly elaborate on the writings of Delhi.
2. Write a short note on the experience of Ibn Battuta at the court of Muhammad Bin Tughlaq.

UNIT – II

II. Answer the following questions in about 300 words each: (2X10 =20)

1. How does Elizabeth Bumiller explain about the wedding system Among the educated classes in her book 'May You Be The Mother of a Hundred Sons'.
2. Is 'From Volga to Ganga' a historical record? Elaborate.

UNIT – III



III. Answer any TWO of the following in 150 words each: (2X5 =10)

1. Briefly explain Globalization and Travel.
2. Write a short note on Dar Saara.
3. Write a note on gender and Travel.

(2021 batch onwards)

G 109 OE1.1

Reg. No.:

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St Aloysius College (Autonomous)

Mangaluru

B.A. Semester I- Degree Examination

February - 2022

Communicative English (Open Elective)

Phonetics and Phonology

Time: 2½ hrs.

Max Marks: 60

I. Answer any ONE of the following in about 200 words Each. (1x10=10)

1. Analyse in detail all the vowel sounds using a vowel quadrilateral
2. Classify the various consonants based on their three term labels.

II. Answer any THREE of the following in about 200 words Each. (3X5=15)

1. What are diphthongs? Elaborate them with examples
2. Write short notes on any three organs of speech.
3. Discuss in brief the difference between American and British based on pronunciation.
4. Explain briefly the rules associated with stress pattern.

III. Transcribe the following from normal orthography to IPA (10X1=10)

1. Students
2. Media
3. Modern
4. Attachment
5. Accident
6. Something
7. January
8. Contribute
9. Accomplish
10. Creativity



IV. Convert the following from IPA to normal orthography (5X1=5)

1. /dʌlʌtfrʌl/
2. /kɒfl/
3. /kɛlmbɾldʒ/
4. /dɪstɹɪkʃn/
5. /grɪ:vns/

V) a. Write the past tense allomorphs for the following

(5x1=5)

1. Pick
2. Fix
3. Provide
4. Stitch
5. Wish

b. Write the plural tense allomorphs for the following

(5x1=5)

1. House
2. Bench
3. Culture
4. Brush
5. Photo

c. Intonate the following paragraph using stress and intonation pattern (10)

On a mango tree in a jungle, there lived many birds. They were happy in their small nests. Before the onset of the rainy season, all the animal of the jungle repaired their homes. The birds also made their homes more secure. Many birds brought twigs and leaves and others wove their nests. "We should also store some food for our children," chirped one of the birds. And they collected food, until they had enough to see them through the rainy season. They kept themselves busy preparing for the tough times. Soon the rains came. It was followed by thunder and lightning. All the animals and birds stayed in their homes. It continued raining for many days. One day, a monkey wet in the rain came into the forest. He sat on a branch, shivering with cold, water dripping from its body. The poor monkey tried his best to get shelter, but in vain. The leaves were not enough to save him from the rains. "Brrr! It is so cold!" said the monkey. The birds were watching all this. They felt sorry for the monkey but there was little they could do for him. One of them said. "Brother! Our small nests are not enough to give you shelter. "Another bird said, "All of us prepared for the rainy season. If you had, you would not be in this piteous situation." How dare you tell me what to do?" said the monkey, growling at the bird. The monkey angrily pounced on the bird's nest, tore it and threw it on the ground. The bird and her chicks were helpless. The poor bird thought, fools never value good advice it is better not to advise them.

G 310 OE 1.1

Reg. No.:

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St Aloysius College (Autonomous)**Mangaluru****Semester I- Degree Examination****February - 2022****B.Com. - Open Elective****MANAGERIAL ECONOMICS****Time: 2 ½ hrs.****Max Marks: 60****SECTION - A****Answer any FIVE from the following.****(5x2=10)**

1. Define Managerial Economics.
2. What is break even analysis?
3. What is MRTS?
4. What is consumer surplus?
5. What is cross elasticity of demand?
6. Write a note on Marris's hypothesis.
7. Define Isoquant curves.

**SECTION - B****Answer any FOUR from the following.****(5x4=20)**

8. Explain the roles and responsibilities of a managerial economist?
9. Explain the determinants of demand.
10. Explain the nature and objectives of managerial economics.
11. Explain the change in demand and quantity demanded.
12. Explain the properties of indifference curve analysis.
13. Explain the basic process of decision making.

Answer any TWO from the following.**(2x15=30)**

14. What is demand forecasting? Explain the methods and steps of demand forecasting.
15. Explain the law of diminishing marginal utility.
16. What is budget line? Explain the shifts of budget line.

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G 340 OE1.1

Reg. No. :

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St Aloysius College (Autonomous)

Mangaluru

Semester I- Degree Examination

February - 2022

B.Com. Vocational (Accounting and Tax) – OPEN ELECTIVE

MANAGERIAL ECONOMICS

Time: 2½ hours

Max Marks: 60

SECTION – A

Answer any FIVE of the following.

(5x2=10)

1. Mention the 3 types of Economies.
2. Mention any 2 merits of Socialist Economy.
3. Mention any 2 determinants of the Price Elasticity of Demand.
4. State the Law of Diminishing Marginal Utility.
5. What is Supply?
6. The price of a good decreases from 100 to 60 per unit. If the E_p is 1.5 and the original quantity demanded is 30 units, calculate the new quantity demanded.
7. Mention any 4 features of Business Cycles.



SECTION - B

Answer any FOUR of the following.

(4X5=20)

8. Discuss the Nature of Business Economics.
9. List out the merits and demerits of Capitalist Economy.
10. Describe the properties of Indifference Curves.
11. Explain the 5 types of supply elasticity with diagrams.
12. Explain the exceptions to the Law of Demand.
13. Briefly explain the 4 phases of Business Cycle.

SECTION – C

Answer any TWO of the following.

(2X15=30)

14. Explain the determinants of demand.
15. Differentiate between Increase and Decrease in Supply and Expansion and Contraction of Supply with diagrams.
16. Briefly explain the external as well as internal causes of business cycles.

G 401 OE1.1

(2021 Batch Onwards)

Reg. No.:

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10

St Aloysius College (Autonomous)

Mangaluru

Semester I – Degree Examination

February - 2022

B.B.A - Open Elective

BUSINESS ECONOMICS

Time: 2 ½ hrs.

Max Marks: 60

PART – A

Answer any FIVE from the following.

(5x2=10)

1. Define Utility.
2. What do you mean by Ordinal Utility?
3. What is Elasticity of Supply?
4. Give the meaning of an Indifference Curve Map.
5. What are Giffen goods?
6. Define Land in economics
7. What do you mean by Demand Forecasting?
8. What is profit Planning?



PART – B

Answer any FOUR from the following.

(4x5=20)

9. Explain the properties of an Indifference curve.
10. Briefly explain the Law of Diminishing marginal Utility.
11. What do you mean by Cross Elasticity of Demand?
12. Explain the Production possibility Curve.
13. Explain the methods of demand forecasting.
14. Explain in brief the features of land.

PART – C

Answer any TWO from the following.

(2x15=30)

15. Explain the nature and scope of Business Economics.
16. State and explain the Law of Demand. What are its exceptions?
17. Explain the concept of Consumer Surplus. Explain its importance.
18. What is Price elasticity of demand? Explain the types of price elasticity.

G 501 OE1.1

(2021 batch onwards)

Reg. No.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester I - Degree Examination

February - 2022

PHYSICS (Open Elective)
ELECTRICAL CIRCUITS AND WIRING

Max Marks: 60

Time: 2½hrs.

PART-A

(4X 2= 8)

Answer any **FOUR** of the following:

1. What is meant by three phase AC supply?
2. Why is the earth pin longer than the other pins in a plug?
3. What is an inductor? Give the unit of self-inductance.
4. What is capacitive reactance? Give its unit and formula.
5. Describe the response of an Inductor, a resistor and capacitor to A.C.
6. State and explain Kirchhoff's Voltage Law.

PART B

Answer any **ONE FULL QUESTION** from each unit.



(10X4=40)

Unit 1

7. a) State and illustrate the Kirchhoff's current Law. (6)
- b) When is a diode said to be in reverse bias? Explain with the help of a circuit. (4)

OR

8. a) What is a bridge rectifier? Give a circuit for bridge rectifier and show the input and output waveforms. (6)
- b) State Faraday's laws of electromagnetic magnetic induction. (4)

Unit 2

9. a) Describe the construction and working of DC generator. (6)
- b) Draw a schematic diagram of an electrical motor and label its parts. (4)

OR

10. a) Describe the construction and working of AC induction motor. (6)
- b) Draw a schematic diagram of a transformer and explain its working. (4)

Unit 3

11. a) What is a circuit breaker? Describe the working of RCCB. (6)
- b) List the different personnel protective equipment used while handling electrical appliances. (4)

OR

12. a) What are the advantages of three phase AC supply when compared to single phase supply? Explain. (6)
- b) What is a full wave rectifier? Give the circuit for full a wave rectifier and show the input and output waveforms. (4)

Contd...2

G 501 OE1.1

Unit 4

13. a) What is meant by electrical insulation? List out the precautions needed to avoid electrocution. (6)
b) What is meant by Phase, Neutral and Earthing in electrical circuits? (4)

OR

14. a) Draw the labelled diagram and explain the working of a Florescent lamp. (6)
b) What are the advantages of a LED bulb over a filament bulb? (4)

PART C

Answer any THREE of the following.

(4X3=12)

15. An ideal transformer has 5000 turns and 500 turns in primary and secondary windings respectively. If the Input voltage is 100 V what will be the output voltage at the secondary coil?
16. Two capacitors of $10\ \mu\text{F}$ and $47\ \mu\text{F}$ are connected in parallel. Find the circuit current when this combination is connected across a 60 Hz, 220 V power supply.
17. A combination of three $220\ \Omega$ resistors are connected in series and are in parallel with a $1\ \text{k}\Omega$ resistor. Calculate the power dissipated if this combination of resistors is connected across a 12V battery.
18. A combination of three $4.7\ \text{k}\Omega$ resistors are connected in parallel and this combination is in series with a $22\ \text{k}\Omega$ resistor. Calculate the power dissipated if this entire combination of resistors is connected across a 10V battery.

(2021 batch onwards)

G 502 OE1.1

Reg. No.:

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**St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination**

February - 2022



**CHEMISTRY - OPEN ELECTIVE
CHEMISTRY IN DAILY LIFE**

Time: 2½ hrs.

Max Marks: 60

- Instructions:**
1. Write the question number and subdivision clearly.
 2. Write equations and diagrams wherever necessary.
 3. Answer Part - A in first two pages of the answer book.

PART - A

Answer any **EIGHT** of the following in 1 to 2 sentences. (1×8=8)

1. a) What are the constituents of milk?
- b) Mention any two food preservatives.
- c) Name any two non-permitted colorants.
- d) Give two examples each for fat and water soluble vitamins.
- e) What are the tests performed to detect the purity of oils and fats?
- f) Give the classification of synthetic detergents.
- g) What is pumped hydro storage?
- h) Give the classification of polymers based on molecular forces.
- i) Give any two applications of polymers as plastic in electronics.

PART - B

Answer any **EIGHT** of the following in 3 to 5 sentences. (3×8=24)

2. (i) How can you detect chicory in coffee?
- (ii) What do you mean by food adulteration? What are the common adulterants in milk?
- (iii) Give a short note on food colouring.
- (iv) Write a note on deficiency diseases of vitamin A, vitamin B, vitamin D.
- (v) Explain the types of rancidity.
- (vi) Give any three differences between soaps and detergents.
- (vii) What is a battery? What is the difference between primary and secondary battery?
- (viii) Explain with one example the classification of polymers based on source.
- (ix) Explain problems of plastic waste management.

PART - C

Answer any **SEVEN** of the following questions. (4×7=28)

3. Explain the estimation of fat content in milk by Rose-Gottlieb Method.
4. Explain the role of benzoates and sorbates as food preservatives.
5. How do you detect the presence of Rhodamine and Sudan III in spices?
6. What are the sources of vitamin K, vitamin E and vitamin B?
7. Briefly explain Halphen test.
8. Write a note on cleansing action of soap.
9. Write a note on future energy storer.
10. Explain 3 important strategies for the development of environment friendly polymers.

G 503 OE1.1

(2021 batch onwards)

Reg. No.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester I - Degree Examination

February - 2022

MATHEMATICS (Open Elective)

Mathematics-I

Time: 2½hrs.

Max Marks: 60

PART-AAnswer any **NINE** of the following:

(9X 2= 18)

1. Prove that the square of an odd integer is of the form $8k + 1$.
2. If p is a prime and $p \mid ab$ then prove that $p \mid a$ or $p \mid b$.
3. Check whether the Diophantine equation $6x + 51y = 22$ can be solved.
4. Find the $lcm(75, 125)$ if their g.c.d is 25.
5. If A is a real Skew Symmetric matrix such that $A^2 + I = O$, then prove that A is orthogonal.
6. Find the rank of $\begin{bmatrix} 1 & 7 & 1 \\ 2 & 3 & 4 \\ 4 & 5 & 7 \end{bmatrix}$.
7. State Cayley Hamilton Theorem.
8. Give an example of a 3×4 echelon matrix.
9. Define continuity of a function at a point 'a'.
10. Check whether $f(x) = x^3 + 4x^2 + 2$ satisfies the hypothesis of Rolle's theorem on $[1, 3]$.
11. Show by intermediate-value theorem that $x^3 - 4x^2 + x + 3 = 0$ has a root between 1 & 2.
12. Find 5th degree Maclaurin polynomial for the function $f(x) = \sin x$.

**PART-B****UNIT I**Answer any **TWO** of the following:

(2 X 7= 14)

1. If a cock is worth 5 coins, a hen 3 coins and three chicks together 1 coin, how many cocks, hens and chicks totaling 100, can be bought for 100 coins?
2. a) Solve the linear Diophantine equation $172x + 20y = 1000$. (5)
b) Find $gcd(143, 227)$. (2)
3. a) Solve the simultaneous congruence $x \equiv 1 \pmod{3}$, $x \equiv 2 \pmod{5}$ and $x \equiv 3 \pmod{7}$. (5)
b) Show that $41 \mid 2^{20} - 1$. (2)

Contd...2

UNIT II**(2 X 7 = 14)****Answer any TWO of the following:**

1. a) If $B = \begin{bmatrix} i & 1+i & 2-3i \\ -1+i & 2i & 1 \\ -2-3i & -1 & 0 \end{bmatrix}$, verify whether iB is Hermitian. (2)
- b) Show that every square matrix A can be expressed uniquely as a sum of symmetric matrix B and skew symmetric matrix C . (5)
2. a) Define the rank of a matrix. (2)
- b) Compute the inverse of $\begin{bmatrix} 1 & 2 & 1 \\ 2 & -1 & 1 \\ 0 & 1 & 2 \end{bmatrix}$. (5)
3. a) Find the solution, if exists for $x + 3y - 2z = 0$
 $2x - y + 4z = 0$
 $x - 11y + 14z = 0$. (5)
- b) Find the characteristic equation of $\begin{bmatrix} 1 & 2 & 0 \\ 2 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$. (2)

UNIT III**Answer any TWO of the following:****(2 X 7 = 14)**

1. State Cauchy's Mean Value theorem and find a value of c in $(0, 1)$ satisfying its conclusion for the functions $f(x) = 3x^2 + 3x - 1$ and $g(x) = x^2 - 4x + 2$.
2. Find the Taylor polynomial of degree 3 at the number a for the following functions:
- a) $f(x) = e^{-x}; a = 0$
- b) $f(x) = x^{\frac{3}{2}}; a = 4$.
3. Evaluate a) $\lim_{\theta \rightarrow 0} \frac{\theta - \sin \theta}{\tan^3 \theta}$
- b) $\lim_{x \rightarrow +\infty} \frac{\sin \frac{1}{x}}{\tan^{-1} \frac{1}{x}}$.

(2021 Batch onwards)

G 5050E1.1

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B. Sc. Semester I – Degree Examination
February - 2022
COMPUTER SCIENCE (Open Elective)
Office Automation

Time: 2:30Hours.

Max Marks: 60

PART - A

1. Answer any **SIX** of the following. (6X2=12)
- a) Define operating system? Give any two examples.
 - b) Expand the following: WAN, MAN
 - c) What is a worksheet of MS Excel? List the types of data used in a MS Excel worksheet.
 - d) Define cell in MS Excel.
 - e) What is an internet application? Give any two examples.
 - f) What is Web Browser? Give any two examples.
 - g) What is DBMS? Give any two examples.
 - h) What are queries? Give an example.



PART - B

Answer any **ONE FULL** question from each unit 12 marks each (4x12=48)

UNIT - I

- 2. a) Explain any six formatting commands used in MS Word. 6
- b) Briefly explain various components in the user interface of MS Office Word. 6
- 3. a) Explain any four special features of MS Word. 4
- b) Explain different types of software used in computer systems. 4
- c) Give the steps to perform Mail Merge a letter in MS Word. 4

UNIT - II

- 4. a) Explain any six mathematical functions of MS Excel. 6
- b) Explain different types of charts available in MS Excel 6
- 5. a) What is data filter? Mention different types of data filter available in MS Excel and explain each. 6
- b) Briefly explain various categories of formulas available in MS Excel. 6

UNIT - III

- 6. a) Explain any four components of MS PowerPoint tool window. 4
- b) Explain how to generate a continuous slideshow in a loop. 4
- c) How to insert clip art to MS PowerPoint presentation? Explain. 4

Contd...2

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7. a) Explain the use of slide sorter in MS Power Point. 4
b) Explain the steps to insert Animation to MS PowerPoint presentation. 4
c) List the advantages and disadvantages of Email. 4

UNIT - IV

8. a) Explain how to create a query using the query wizard in MS Access. 4
b) List the different data types used in MS Access. 4
c) How to add and delete fields in a table? Explain. 4
9. a) Explain the steps for creating a table using design view in MS Access. 4
b) What are forms? Give the steps to create forms in MS Access. 4
c) What are primary key fields? Explain adding a primary key field. 4

G 506 OE1.1

(2021 Batch Onwards)

Reg. No. :

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February - 2022
STATISTICS - OPEN ELECTIVE
STATISTICAL METHODS

Time: 2½ Hours.

Max Marks: 60

Note: Normal Distribution Table and Chi-square Distribution Table will be provided.

SECTION - A



I Answer any FIVE of the following.

1. Define Statistics.
2. What do you mean by sampling error? How can it be reduced?
3. State any two properties of arithmetic mean.
4. What do you mean by Dispersion? Name the measures of Dispersion.
5. Give the axiomatic definition of probability.
6. If X is a Binomial variate with n=4 and p=0.3. Find mean and standard deviation.
7. Define Type I and Type II error.

SECTION - B

II Answer any ONE question from each unit.

(4x5=20)

UNIT - I

8.a. Define Simple random sampling. Explain the methods to draw samples by SRS.

OR

8.b. Draw histogram for the following data.

I.Q	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of students	5	22	42	35	20	10	4	2

UNIT - II

9.a. Find Geometric mean and Harmonic mean for the following data.

I.Q	85	90	95	100	105	110	115
No. of children	2	16	33	55	77	95	100

OR

9.b. Find quartile deviation and its relative measure.

Percentage marks	10-20	20-30	30-40	40-50	50-60	60-70
No. of students	8	13	20	24	15	7

UNIT - III

10.a. The probability of a person winning a game of chess with another person is $\frac{2}{3}$. If he plays 3 games, what is the probability that he wins at least two of the games?

OR

- 10.b. A radar unit is used to measure speeds of cars on a motorway. The speeds are normally distributed with a mean of 90 km/hr and a standard deviation of 10 km/hr. What is the probability that a car picked at random is travelling at more than 100 km/hr?

UNIT - IV

- 11.a. It is known that I.Q. of boys has standard deviation 10 and that of girls has standard deviation 12. Mean I.Q. of 200 randomly selected boys is 95 and mean I.Q. of 300 randomly selected girls is 99. Can we conclude that on an average boys and girls have same I.Q?

OR

- 11.b. The variance of weights of 18 new born babies is 0.32 kgs. Test at 1% level of significance that variance of weight of new born babies is less than 0.35 kgs.

SECTION - C

III Answer any TWO of the following.

(2x15=30)

12. a. The weights of students in two sections in a school are given below. Calculate coefficient of variation for the following data and determine which group is more uniform with regard to weights.

Weights	20-35	25-30	30-35	35-40	40-45
Group A	1	22	64	10	3
Group B	3	21	74	15	20

(10)

12. b. Fit an exponential curve of the type $y=ae^{bx}$ to the following data.

x	0	0.5	1	1.5	2	2.5
y	0.10	0.45	2.15	9.15	40.35	180.75

(5)

- 13.a. Find rank correlation for the following data.

X	3.6	8.4	6.5	4.9	5.6	7.5
Y	7.4	9.6	3.5	6.5	5.4	8.6

(5)

13. b. Find two regression equations for the following data. Also estimate the value of sales when purchase is 50.

Purchases	9	7	10	9	6	12
Sales	15	8	17	21	10	24

(10)

14. a. State addition and multiplication theorem of probability.

(3)

14. b. Find value of 'k' and $E(6X)$ for the following data.

X	0	2	4	6	8
$P(X=x)$	2k	k	3k	k	k

(6)

14. c. A bag contains 4 white and 5 black balls. Two balls are drawn one after the other without replacement. Find probability of getting (i) both white balls (ii) a white and a black ball.

(6)

(2021 Batch Onwards)

G 507 OE1.1

Reg. No.:

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I- Degree Examination
February - 2022
BOTANY (OPEN ELECTIVE)
PLANTS FOR HUMAN WELFARE

Time: 2½ Hours.

Note: i) Answer all the sections.

ii) Draw diagrams wherever necessary.



Max Marks: 60

SECTION - A

I Answer any FIVE of the following. (5X2=10)

- 1) List out the importance of millets.
- 2) Which plants originated from South American centre according to Vavilov?
- 3) Give the botanical names of mango and Grapes.
- 4) What is vulcanization? How is it beneficial?
- 5) Write the botanical name, family, parts used and any two uses of tea.
- 6) List out any four applications of Neem oil.
- 7) Give two applications of cotton.
- 8) Give any two medicinal uses each of (i) *Cinchona* and (ii) *Digitalis*

SECTION - B

II Answer any SIX of the following. (6x5=30)

- 1) What is meant by center of Origin as per Vavilov? Discuss.
- 2) How are legumes important to humankind? Describe using suitable examples.
- 3) Write the family, botanical name, parts used and two uses of (i) fennel; (ii) clove.
- 4) Describe the cultivation and processing of grapes.
- 5) Write a brief description of essential oil extraction in case of rose oil.
- 6) Briefly explain the processing of coffee.
- 7) Write a note on community forestry and its role in forest conservation.
- 8) Describe the role of *Aloe vera* and *Cannabis* in human life.

SECTION - C

III Answer any TWO of the following. (2x10=20)

- 1) Describe the post-harvest processing in Rice and wheat. List out 2 uses for each.
- 2) Describe the processing of sugarcane and list out the byproducts of sugar industry and their uses.
- 3) Write a general note on edible oil- yielding plants mentioning the botanical name and family of any two oil yielding plants.
- 4) (a) Reserve Forest
(b) National parks
(c) Wildlife Sanctuaries
(d) Importance of Eucalyptus Oil.

2021 Batch onwards

G 508 OE 1.1

Reg.No.

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St Aloysius College (Autonomous)
Mangaluru
B.Sc. Semester I – Degree Examination
February -2022
ZOOLOGY (OPEN ELECTIVE)
ECONOMIC ZOOLOGY

Time: 2 ½ hours

Max. Marks: 60

Note:

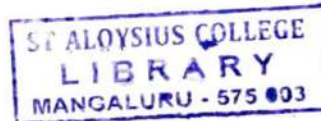
1. Answer any **ten** questions from Part -A, any **four** questions from Part- B and any **two** questions from part-C.
2. Draw diagrams wherever necessary.

Part-A

I. Answer any TEN of the following.

2x10=20

- a) What is Moriculture? What are the different varieties of mulberry plants cultivated in India?
- b) What is stifling?
- c) What are the uses of Bees-wax?
- d) Name the causative agent of Raniket disease. Mention its symptoms.
- e) Explain the nutritive value of eggs.
- f) Write a note on pasteurization of milk.
- g) Mention the scope of aquaculture.
- h) Give two examples for shell fishes.
- i) What is ornamental fish culture? Name any two freshwater ornamental fishes.
- j) Name the common fishes used for aquaculture.
- k) Define epigeic and endogenic classification of earthworms?
- l) Give the economic importance of lac.



Part- B

II. Answer any FOUR of the following.

5X4=20

- a) Write a short note on silk worm diseases
- b) Explain the chemical composition and properties of honey.
- c) Give an account of desi breeds of chicken in India.
- d) Define pearl culture. Elaborate the process of pearl formation.
- e) Explain the modern techniques of fish seed production
- f) Give a brief account of lac insects and their host plants.

Part -C

III. Answer any TWO of the following.

10X2=20

- a) Explain the morphology and lifecycle of mulberry silk worm *Bombyx mori*.
- b) Give an account of management of a Model Dairy farm.
- c) Write an essay on Fishing crafts and gears.
- d) Elaborate the process of preparation of vermicompost. Add a note on the life cycle of earthworms.

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St Aloysius College (Autonomous)
Mangaluru

B.Sc. Semester I – Degree Examination

February - 2022

BIOCHEMISTRY - OPEN ELECTIVE

BIOCHEMISTRY OF CELL

Time: 2½ Hours

Max. Marks: 60

Note: i) Answer all the questions

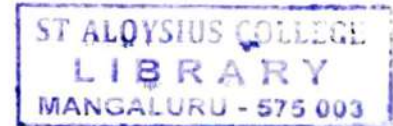
ii) Draw diagrams wherever necessary

PART – A

1. **Answer any TEN of the following.**

(2×10=20)

- Write the structure and functions of mitochondria.
- Mention the physical properties of water.
- Define peptide bond.
- Write the difference between essential and non-essential amino acids.
- What is non-reducing sugar? Give example.
- Give the example for plant and animal polysaccharide.
- What is unusual DNA? Give example.
- What is the difference between nucleoside and nucleotide?
- What are spingolipids?
- What is micelle structure lipid?
- Mention the functions of calcium and magnesium.
- Differentiate fat and water soluble vitamins.



PART – B

Answer any EIGHT of the following.

(5X8=40)

- Write difference between prokaryotes and eukaryotes.
- Classify the amino acid based on polarity.
- Write about the classification of carbohydrates with suitable example.
- Explain the double helical structure of DNA.
- Write the structure and functions of t-RNA.
- Explain structure and functions of any two water soluble vitamins.
- Write a note on structural lipid.
- Write functions of Na⁺ and Ca²⁺.
- Write a note on Valinomycin.
- Explain the classification of amino acid based on its structure.

(2021 batch onwards)

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St Aloysius College (Autonomous)

Mangaluru

Semester I – Degree Examination

February - 2022

B.C.A. - OPEN ELECTIVE

BUSINESS STATISTICS



Time: 2½ hrs.

Max. Marks: 60

PART – A

Answer any SIX of the following. (6x2=12)

1. a) Calculate A.M. for the data given below:
37.5, 44.6, 43.0, 41.8, 46.3
- b) Find range and its relative measure for the following data:
7, 2, 13, 6, 9, 10, 5, 11, 14, 8, 6.
- c) Distinguish between simple interest and compound interest.
- d) If $\sum p_1q_0=328$ and $\sum p_0q_0=273$, find the value of Laspeyre's price index number.
- e) Write the formula for Fisher's price index number.
- f) Define time series. Give an example.
- g) Write down the normal equations for fitting a linear trend.

PART – B

Answer any ONE FULL question from each unit. (12x4=48)

UNIT – I

8. a) Calculate Karl Pearson's Coefficient of correlation from the following data: (6)

Aptitude scores	9	18	18	20	20	23
Productivity index	33	23	33	42	29	32

- b) Calculate the standard deviation and coefficient of variation for the following data: (6)

Income (Rs)	500-700	700-900	900-1100	1100-1300	1300-1500
No. of persons	5	11	26	10	8

- 9.a) Calculate Harmonic mean for the following data:

C.I.	55-60	60-65	65-70	70-75	75-80	80-85	85-90	(4)
f	8	14	15	20	19	14	10	

- b) Find the value of mode for the following frequency distribution:

C.I.	0-400	400-800	800-1200	1200-1600	1600-2000	(4)
f	4	12	40	41	27	

Contd...2

G 601 OE1.1

- c) Compute Quartile Deviation for the following data:

Marks	30	35	40	45	50	55	60	(4)
No. of Students	6	11	15	23	20	16	8	

UNIT - II

- 10.a) Find the number of years to get ₹ 1530 as interest on a loan of ₹ 1500 at 4% p.a.? (4)
- b) Find the compound interest on ₹ 1200 at 8% annually for two years, if the interest is calculated annually. (4)
- c) In what time ₹ 4000 will amount to ₹ 4410 at 5% compound interest. (4)
- 11.a) What annual rate of simple interest was paid if ₹ 500 earned ₹ 55 as interest in 2 years 9 months? (4)
- b) Calculate the amount and interest on ₹ 1000 for 20 years allowing compound interest at 5%. (4)
- c) Saina invested in mutual funds. If that mutual fund offered an interest rate of 5 % per annum compounded annually, then find the amount invested by Saina given that she got a total amount of 77175 from the funds after 2 years. (4)

UNIT - III

- 12.a) Define index number and write the types of index numbers. (4)
- b) For the following data calculate the
- i) Simple A.M. of Price relative ii) Simple G.M. of Price relative

Commodity		A	B	C	D	E
Price	Base year	3	5	8	4	5
	Current Year	4.50	8.00	8.00	6.20	5.50

- c) Construct the cost of living index number by aggregate expenditure method.

Items	Price		Weights
Food	30	47	4
Fuel	8	12	1
Clothing	14	18	3
House Rent	22	15	2
Misc.	25	30	1

- 13.a) Calculate a suitable price index number for the following data:

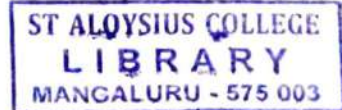
Commodity	P ₀	P ₁	Q ₁
A	120	150	20
B	80	80	10
C	40	30	20

- b) Calculate Marshall-Edgeworth price index numbers for the following data:

Commodity	1985		1988	
	Price	Quantity	Price	Quantity
A	40	10	50	7
B	20	5	30	8
C	30	6	40	10
D	10	9	20	10

- c) Construct the cost of living index number by Family Budget method.

Items	Group Index	% of Expenditure
Food	110	20
Clothing	115	15
Fuel	125	10
Rent	116	8
Education	118	12
Misc.	120	35



(4)

UNIT - IV

- 14.a) Briefly explain the different components of time series. (4)

- b) Determine the trend by calculating the 3 yearly moving averages. (4)

Year	1988	1989	1990	1991	1992	1993	1994
Value	412	438	446	454	470	483	490

(4)

- c) Fit a straight line trend to the following time-series data by the method of least squares.

Year	1990	1992	1994	1996	1998
Production (in 1000 units)	18	21	23	27	16

(4)

- 15.a) Define secular trend and cyclical variation with an example. (4)

- b) Mention any two merits and demerits of moving averages method. (4)

- c) Fit a linear trend to the following time-series data by the method of least squares.

Year	1993	1994	1995	1996	1997
Sales (in 1000 units)	10	12	13	10	8

(4)
